Marked-Up Version of Amended Claims

Claims 5, 6 and 14 have been amended as shown by underlining (additions) and bracketing (deletions), in the copies thereof that follow.

5. (Amended) A code-division-multiple-access (CDMA) wireless base station, comprising:

a CDMA transmitter;

a CDMA receiver; and

a controller coupled to the CDMA receiver for responding to signals received via the CDMA receiver and coupled for controlling the CDMA transmitter, such that in operation the CDMA base station is for performing the following steps:

receiving from a remote station an access burst comprising a sequence of

coded preamble signals at sequentially increasing discrete power levels;

detecting a first one of the coded preamble signals of the sequence that is

received at an adequate power level;

upon detection of the first coded preamble signal at the adequate power

level, transmitting an acknowledgement signal;

receiving from the remote station a remote station collision detection

preamble;

transmitting to the remote station a base station collision detection

preamble corresponding to the received remote station collision detection

preamble; and

subsequently, receiving any of data and control information over the common packet channel from the remote station, [;and] or transmitting any of data and control information to the remote station.

6. (Amended) A code-division-multiple-access (CDMA) wireless remote station, comprising:

a CDMA transmitter;

a CDMA receiver; and

a controller coupled to the CDMA receiver for responding to signals received via the CDMA receiver and coupled for controlling the CDMA transmitter, such that in operation the CDMA remote station is for performing the following steps:

transmitting over a common packet channel a plurality of coded preamble signals at sequentially increasing discrete power levels to the base station;

receiving an acknowledgement signal from the base station following transmission of one or more of the coded preamble signals;

transmitting a collision detection preamble to the base station in response to receipt of the acknowledgement signal;

receiving a base station collision detection preamble from the base station, the base station collision detection preamble corresponding to the transmitted collision detection preamble;

transmitting any of data and control information over the common packet channel to the base station, in response to receipt of the base station collision detection preamble; and

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receiving over the common synchronization channel any of data and control information from the base station.

14. (Amended) A base band processor for use in a code-division-multiple-access (CDMA) wireless remote station, comprising:

an acknowledgment detector for detecting an acknowledgment in received spread-spectrum signals;

a data and control processor, for detecting and processing data and control information contained in the received spread-spectrum signals;

a encoder, for encoding data;

an interleaver, coupled to the encoder, for interleaving encoded data;

a preamble generator for generating coded preamble signals;

a multiplexer, coupled to the interleaver and to the preamble generator, for multiplexing the interleaved data and the coded preamble signals;

a packet formatter, coupled to the multiplexer, for formatting the multiplexed data and the coded preamble signals into packets; and

a controller coupled to the acknowledgment detector and to the packet formatter for controlling the modulator, the acknowledgment detector, the preamble generator, the multiplexer and the packet formatter, such that in operation the base band processor is for performing the following steps:

generating and outputting a plurality of packets comprising a sequence of coded preamble signals at sequentially increasing discrete power levels;

detecting an acknowledgement of at least one of the output packets, in a

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first received spread-spectrum signal;

upon detection of the acknowledgement, generating and outputting a packet comprising a collision detection preamble;

detecting in a second received spread-spectrum signal a base station collision detection preamble corresponding to the outputted collision detection preamble;

in response to the detection of the base station collision detection preamble, generating and outputting a packet comprising data and control information; and

processing any of data and control information in a third received spread-spectrum signal.